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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/891,655	06/27/2001	Masahide Mohri	Q51805	4405
75	90 06/25/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER	
			BOS, STEVEN J	
	•		ART UNIT	PAPER NUMBER
			1754	

DATE MAILED: 06/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



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## Office Action Summary

Application No. 09/891,655

Examiner

Applicant(s)

Steven Bos

Art Unit 1754

Mohri et al



	The MAILING DATE of this communication appears	on the cove	er sheet with	n the correspondence address
Period 1	for Reply			
	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIR	E <u>3</u>	MONTH(S) FROM
- Extens	ions of time may be available under the provisions of 37 CFR 1.136 (a). In a date of this communication.	no event, howe	ver, may a reply	be timely filed after SIX (6) MONTHS from the
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire S e application to	IX (6) MONTHS become ABANI	from the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status				•
1) 💢	Responsive to communication(s) filed on May 21, 2	2003		·
2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This act	ion is non-	final.	
3) 🗆	Since this application is in condition for allowance eclosed in accordance with the practice under Ex pair			
Disposi	tion of Claims			
4) 💢	Claim(s) 1, 4-28, 31, and 32			is/are pending in the application.
4	la) Of the above, claim(s)			is/are withdrawn from consideration.
5) 🗆	Claim(s)			is/are allowed.
6) 💢	Claim(s) 1, 4-28, 31, and 32			is/are rejected.
7) 🗆	Claim(s)			is/are objected to.
8) 🗆	Claims			
Applica	tion Papers			
9) 🗆	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	a) 🗆 acc	epted or b	$\square$ objected to by the Examiner.
	Applicant may not request that any objection to the d	rawing(s) b	e held in ab	eyance. See 37 CFR 1.85(a).
11)	The proposed drawing correction filed on		_ is: a)□	approved b) $\square$ disapproved by the Examiner.
	If approved, corrected drawings are required in reply t	to this Offic	e action.	
12)	The oath or declaration is objected to by the Exami	ner.		
Priority	under 35 U.S.C. §§ 119 and 120			. ·
13) 🗆	Acknowledgement is made of a claim for foreign pr	riority unde	er 35 U.S.C	C. § 119(a)-(d) or (f).
a) [	☐ All b)☐ Some* c)☐ None of:			
	1. $\square$ Certified copies of the priority documents hav	e been rec	eived.	
	2. $\square$ Certified copies of the priority documents hav	e been rec	eived in Ap	plication No
	3. Copies of the certified copies of the priority de application from the International Bures	au (PCT Ru	ıle 17.2(a))	•
	ee the attached detailed Office action for a list of the		•	
. –	Acknowledgement is made of a claim for domestic		•	
a) ∟ 15) □	The translation of the foreign language provisional Acknowledgement is made of a claim for domestic			
To,∟ Attachm	·	priority un	20. 00 0.0	TO US TEO UNIQUE TEN
	rtice of References Cited (PTO-892)	4) Intervi	w Summary (P	FO-413) Paper No(s)
2) No	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice	of Informal Pate	nt Application (PTO-152)
3) 🔲 Inf	ormation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:		

Serial Number: 09/891655

Art Unit: 1754

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 24, 2003 has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for "zirconium dioxide having a number average particle size of 40 microns", does not reasonably provide enablement for any metal oxide except alpha alumina having a number average particle size of 40 microns or less. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims. Instant example 21 and Table 3 only support zirconium dioxide having a number average particle size of 40 microns.

Claim 1 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the In claim 1, "40 um or less" is new matter. claimed invention.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,4-6,11-13,20,23,24,26-28 are rejected under 35 U.S.C. § 103 as being unpatentable over Jodden '163.

Jodden teaches the claimed process of calcining titanium oxide or precursor thereof in an atmosphere of chlorine gas (see the examples and claims). Since Jodden teaches the instantly claimed process the instantly claimed product would also necessarily be formed.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Where the claimed and prior art product(s) are identical or substantially identical, or are produced by identical or substantially identical process(es) the burden of proof is on applicant to establish that the prior art product(s) do not necessarily or inherently possess the characteristics of the instantly claimed product(s), see In re Best, 195 USPQ 430.

Claims 1,4-8,11-13,20,23,24,26-28,31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pastor '656.

Pastor teaches the instantly claimed process of calcining metal oxide powders in an atmosphere of halogen gas (see the examples and claims). Since Pastor teaches the instantly claimed process the instantly claimed product would also necessarily be formed.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Where the claimed and prior art product(s) are identical or substantially identical, or are produced by identical or substantially identical process(es) the burden of proof is on applicant to establish that the prior art product(s) do not necessarily or inherently possess the characteristics of the instantly claimed product(s), see In re Best, 195 USPQ 430.

Claims 1,4-10,13,15,16,18-20,22-24,26-28,31,32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brackelsberg '258.

Brackelsberg suggests the instantly claimed process of heating iron and manganese ores, ie. metal oxide precursors, in HCl or chlorine gas and steam, to form iron oxide or manganese oxide. See cols. 2,3. Since Brackelsberg suggests the instantly claimed process the instantly claimed product would also be formed.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Where the claimed and prior art product(s) are identical or substantially identical, or are produced by identical or substantially identical process(es) the burden of proof is on applicant to establish that the prior art product(s) do not necessarily or inherently possess the characteristics of the instantly claimed product(s), see In re Best, 195 USPQ 430.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1,4-28,31,32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of U.S. Patent No. 6303091. Although

the conflicting claims are not identical, they are not patentably distinct from each other because they overlap in scope of subject matter claimed. It would have been obvious to recover the instantly claimed product from the taught process.

Claims 1,4-28,31,32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No. 5736111. Although the conflicting claims are not identical, they are not patentably distinct because they overlap in scope of subject matter claimed. It would have been obvious to recover the instantly claimed product from the taught process.

Claims 1,4-28,31,32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-23 of U.S. Patent No. 5688480. Although the conflicting claims are not identical, they are not patentably distinct from each other because they overlap in scope of subject matter claimed. It would have been obvious to recover the instantly claimed product from the taught process.

Claims 1,4-28,31,32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-6 of U.S. Patent No. 5840267. Although the conflicting claims are not identical, they are not patentably distinct from each other because they overlap in scope of subject matter claimed. It would have been obvious to recover the instantly claimed product from the taught process.

Claims 1,4-28,31,32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 5846505. Although the conflicting claims are not identical, they are not patentably distinct from each other because they overlap in scope of subject matter claimed. It would have been obvious to recover the instantly claimed product from the taught process.

Applicant's arguments filed March 24, 2003 have been fully considered but they are not persuasive.

Applicant states that the metal oxide powder of Jodden would not have the same particle size as that instantly claimed because the instant process uses a raw material having an average particle size of 0.1 micron or less whereas Jodden uses a powder having a size of 60-600 micron.

However the instant process claims do not require such a small raw material particle size and Jodden does suggest the instantly claimed process therefore the instantly claimed product would be expected to be formed.

Applicant states that Pastor does not describe titanium oxide, zirconium oxide or precursors thereof in the examples or claims and that Pastor teaches an entirely different process than is instantly claimed.

However the instant claims are not so limited. Also, the examples of Pastor teach the instantly claimed process of calcining, ie. heating at 1000°C, a non alpha alumina powder, eg. silica, germanium dioxide, lanthanum oxide, etc., in molecular halogen, eg. chlorine. The taught process would produce the instantly claimed product, absent a comparative showing otherwise.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is (703) 308-2537. The examiner is on the increased flexitime program schedule and can normally be reached between 8AM and 6PM Monday through Friday. The FAX No. for After Final amendments is 703-872-9311; for all others it is 703-872-9310. Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0661.

Steven Bos

Primary Examiner Art Unit 1754